

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
24 June 2004 (24.06.2004)

PCT

(10) International Publication Number  
**WO 2004/053117 A2**

- (51) International Patent Classification<sup>7</sup>: C12N 9/00 (74) Agents: GOODFELLOW, Hugh, Robin et al.; Carpmaels & Ransford, 43-45 Bloomsbury Square, London WC1A 2RA (GB).
- (21) International Application Number: PCT/GB2003/005404
- (22) International Filing Date: 11 December 2003 (11.12.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 0228957.7 11 December 2002 (11.12.2002) GB
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- (71) Applicant (*for all designated States except US*): INPHARMATICA LIMITED [GB/GB]; 60 Charlotte Street, London W1T 2NU (GB).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): FAGAN, Richard, Joseph [US/GB]; Inpharmatica Limited, 60 Charlotte Street, London W1T 2NU (GB). MICHALOVICH, David [GB/GB]; Inpharmatica Limited, 60 Charlotte Street, London W1T 2NU (GB). NUGENT, Timothy, Charles, Oliver [GB/GB]; Inpharmatica Limited, 60 Charlotte Street, London W1T 2NU (GB).
- Published:  
— without international search report and to be republished upon receipt of that report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: SERINE PROTEASE

(57) Abstract: This invention relates to a novel protein, termed INTP039, herein identified as a serine protease, in particular, as a member of the trypsin family of proteins and to the use of this protein and nucleic acid sequence from the encoding genes in the diagnosis, prevention and treatment of disease.